

IN THE CLAIMS:

1. (Previously Presented) A method of making a molded article (10), wherein the molded article (10) comprises a paint layer (12) and a polyurethane layer (14), said method comprising the steps of:

applying a water-based latex composition to a surface (22) of a mold (18, 20) to form the paint layer (12);

infusing the water-based latex composition with an alkali metal hydroxide; and

adhering the polyurethane layer (14) to the paint layer (12).

2. (Cancelled).

3. (Previously Presented) A method as set forth in claim 1 wherein the alkali metal hydroxide is selected from the group of potassium hydroxide, sodium hydroxide, lithium hydroxide, and mixtures thereof.

4. (Previously Presented) A method as set forth in claim 1 wherein the step of infusing the water-based latex composition with the alkali metal hydroxide is further defined as infusing the water-based latex composition with at least 0.2 parts by weight of the alkali metal hydroxide, based on 100 parts by weight of the water-based latex composition.

Claims 5-11. (Cancelled).

12. (Previously Presented) A method as set forth in claim 1 further comprising the step of applying a mold release agent to the surface (22) of the mold (18, 20) prior to said step of applying the water-based latex composition to the surface (22) of the mold (18, 20).

13. (Previously Presented) A method as set forth in claim 1 wherein the step of adhering the polyurethane layer (14) is further defined as spraying the polyurethane layer

(14) onto the paint layer (12) into which the alkali metal hydroxide has been infused and allowing a reaction to take place between an isocyanate component in the polyurethane layer (14) and the water-based latex composition to increase the adhesion between the paint layer (12) and the polyurethane layer (14).

14. (Previously Presented) A method as set forth in claim 1 further comprising the steps of mixing an isocyanate component and an isocyanate-reactive component outside of the open mold (18) to form a polyurethane composition and applying the polyurethane composition to the paint layer (12), thereby forming the polyurethane layer (14).

15. (Previously Presented) A method as set forth in claim 1 further comprising the steps of mixing an isocyanate component and an isocyanate-reactive component in the open mold (18) to form a polyurethane composition and applying the polyurethane composition to the paint layer (12), thereby forming the polyurethane layer (14).

16. (Previously Presented) A method as set forth in claim 1 wherein the step of applying the water-based latex composition is further defined as applying the water-based latex composition to the surface (22) of an open mold (18).

17. (Original) A method as set forth in claim 16 further comprising the step of closing the open mold (18) to produce a closed mold (20) prior to said step of adhering the polyurethane layer (14) to the paint layer (12).

18. (Previously Presented) A method as set forth in claim 17 wherein the step of adhering the polyurethane layer (14) to the paint layer (12) is further defined as reaction injection molding the polyurethane layer (14) onto the paint layer (12) into which the alkali metal hydroxide has been infused and allowing a reaction to take place between an

isocyanate component in the polyurethane layer (14) and the water-based latex composition to increase the adhesion between the paint layer (12) and the polyurethane layer (14).

19. (Original) A method as set forth in claim 18 wherein the step of reaction injection molding the polyurethane layer (14) is further defined as mixing an isocyanate component and an isocyanate-reactive component outside of the closed mold (20) to form a polyurethane composition and injecting the polyurethane composition into the closed mold (20) and onto the paint layer (12), thereby forming the polyurethane layer (14).

20. (Original) A method as set forth in claim 18 wherein the step of reaction injection molding the polyurethane layer (14) is further defined as mixing an isocyanate component and an isocyanate-reactive component in the closed mold (20) to form a polyurethane composition in the closed mold (20) and applying the polyurethane composition onto the paint layer (12), thereby forming the polyurethane layer (14).

21. (Original) A method as set forth in claim 1 further comprising the step of heating the mold (18, 20) to a temperature of at least 145°F.

22. (Original) A molded article (10) made according to the method as set forth in claim 1.

23. (Previously Presented) A method of increasing adhesion between layers of a molded article (10), wherein the molded article (10) comprises a paint layer (12) and a polyurethane layer (14), said method comprising the steps of:

applying a water-based latex composition to a surface (22) of an open mold (18) to form the paint layer (12);

spraying an alkali metal hydroxide onto the paint layer (12);

adhering the polyurethane layer (14) to the paint layer (12) in the mold (20).

24. (Previously Presented) A method as set forth in claim 23 wherein the alkali metal hydroxide comprises potassium hydroxide.

25. (Previously Presented) A method as set forth in claim 23 wherein the step of spraying the alkali metal hydroxide onto the paint layer (12) is further defined as spraying a solution including at least 0.2 parts by weight of potassium hydroxide, based on 100 parts by weight of the solution, onto the paint layer (12).

26. (Previously Presented) A method as set forth in claim 23 further comprising the step of applying a mold release agent to the surface (22) of the open mold (18) prior to said step of applying the water-based latex composition to the surface (22) of the mold (18).

27. (Original) A method as set forth in claim 23 further comprising the step of closing the open mold (18) to produce a closed mold (20) prior to said step of adhering the polyurethane layer (14) to the paint layer (12).

28. (Original) A method as set forth in claim 23 wherein the step of adhering the polyurethane layer (14) to the paint layer (12) is further defined as reaction injection molding the polyurethane layer (14) in the closed mold (20).

29. (Original) A method as set forth in claim 28 wherein the step of reaction injection molding the polyurethane layer (14) is further defined as mixing an isocyanate component and an isocyanate-reactive component outside of the closed mold (20) to form a polyurethane composition and injecting the polyurethane composition into the closed mold (20) and onto the paint layer (12), thereby forming the polyurethane layer (14).

30. (Original) A method as set forth in claim 28 wherein the step of reaction injection molding the polyurethane layer (14) is further defined as mixing an isocyanate component and an isocyanate-reactive component in the closed mold (20) to form a polyurethane composition in the closed mold (20) and applying the polyurethane composition onto the paint layer (12), thereby forming the polyurethane layer (14).

31. (Original) A method as set forth in claim 23 further comprising the step of heating the closed mold (20) to a temperature of at least 145°F.

32. (Original) The molded article (10) made according to the method as set forth in claim 23.

33. (Previously Presented) A method of increasing adhesion between layers of a molded article (10), wherein the molded article (10) comprises a paint layer (12) and a polyurethane layer (14), said method comprising the steps of:

mixing an alkali metal hydroxide into a water-based latex composition;

applying the water-based latex composition to a surface (22) of an open mold (18) to form the paint layer (12);

adhering the polyurethane layer (14) to the paint layer (12) in the mold (20).

34. (Previously Presented) A method as set forth in claim 33 wherein the alkali metal hydroxide comprises potassium hydroxide.

35. (Previously Presented) A method as set forth in claim 33 wherein the step of mixing the alkali metal hydroxide into the water-based latex composition is further defined as mixing a solution including at least 0.2 parts by weight of potassium hydroxide, based on 100 parts by weight of the solution, into the water-based latex composition.

36. (Previously Presented) A method as set forth in claim 33 further comprising the step of applying a mold release agent to the surface (22) of the open mold (18) prior to said step of applying the water-based latex composition to the surface (22) of the mold (18).

37. (Original) A method as set forth in claim 33 further comprising the step of closing the open mold (18) to produce a closed mold (20) prior to said step of adhering the polyurethane layer (14) to the paint layer (12).

38. (Original) A method as set forth in claim 33 wherein the step of adhering the polyurethane layer (14) to the paint layer (12) is further defined as reaction injection molding the polyurethane layer (14) in the closed mold (20).

39. (Original) A method as set forth in claim 38 wherein the step of reaction injection molding the polyurethane layer (14) is further defined as mixing an isocyanate component and an isocyanate-reactive component outside of the closed mold (20) to form a polyurethane composition and injecting the polyurethane composition into the closed mold (20) and onto the paint layer (12), thereby forming the polyurethane layer (14).

40. (Original) A method as set forth in claim 38 wherein the step of reaction injection molding the polyurethane layer (14) is further defined as mixing an isocyanate component and an isocyanate-reactive component in the closed mold (20) to form a polyurethane composition in the closed mold (20) and applying the polyurethane composition onto the paint layer (12), thereby forming the polyurethane layer (14).

41. (Original) A method as set forth in claim 33 further comprising the step of heating the closed mold (20) to a temperature of at least 145°F

42. (Original) The molded article (10) made according to the method as set forth in claim 33.

43. (Previously Presented) A method of making a molded article (10), wherein the molded article (10) comprises a paint layer (12) and a polyurethane layer (14), said method comprising the steps of:

providing the paint layer (12) formed from a water-based latex composition; infusing the water-based latex composition with an alkali metal hydroxide; and applying and adhering the polyurethane layer (14) to the paint layer (12).

44. (Previously Presented) A method as set forth in claim 43 wherein the step of providing the paint layer comprises applying the water-based latex composition to a substrate to form the paint layer (12).

45. (Previously Presented) A method as set forth in claim 43 wherein the step of providing the paint layer comprises spraying the water-based latex composition onto a surface of a mold (22) to form the paint layer (12).

46. (Cancelled).

47. (Previously Presented) A method as set forth in claim 43 wherein the alkali metal hydroxide is selected from the group of potassium hydroxide, sodium hydroxide, lithium hydroxide, and mixtures thereof.

48. (Currently Amended) A method as set forth in claim 43 wherein the step of infusing the water-based latex composition with the alkali metal hydroxide is further defined as infusing the water-based latex ~~water-based paint~~ composition with at least 0.2 parts by weight of the alkali metal hydroxide, based on 100 parts by weight of the water-based latex composition.

49. (Previously Presented) A method as set forth in claim 48 wherein the step of infusing the water-based latex composition with the alkali metal hydroxide is further defined as mixing the alkali metal hydroxide into the water-based latex composition prior to applying the water-based latex composition to the surface (22) of the mold (18, 20).

50. (Previously Presented) A method as set forth in claim 48 wherein the step of infusing the water-based latex composition with the alkali metal hydroxide is further defined as spraying the alkali metal hydroxide onto the paint layer (12) prior to said step of applying and adhering the polyurethane layer (14) to the paint layer (12).

51. (Previously Presented) A method as set forth in claim 50 wherein the step of spraying the alkali metal hydroxide onto the paint layer (12) is further defined as spraying a solution including at least 0.2 parts by weight of the alkali metal hydroxide, based on 100 parts by weight of the solution, onto the paint layer (12).

52. (Cancelled).

53. (Previously Presented) A method as set forth in claim 45 further comprising the step of applying a mold release agent to the surface of the mold (22) prior to said step of applying the water-based latex composition to the surface of the mold (22).

54. (Original) A method as set forth in claim 45 further comprising the step of heating the mold (18, 20) to a temperature of at least 145°F.

55. (Original) A molded article (10) made according to the method as set forth in claim 43.